

Fig. 2

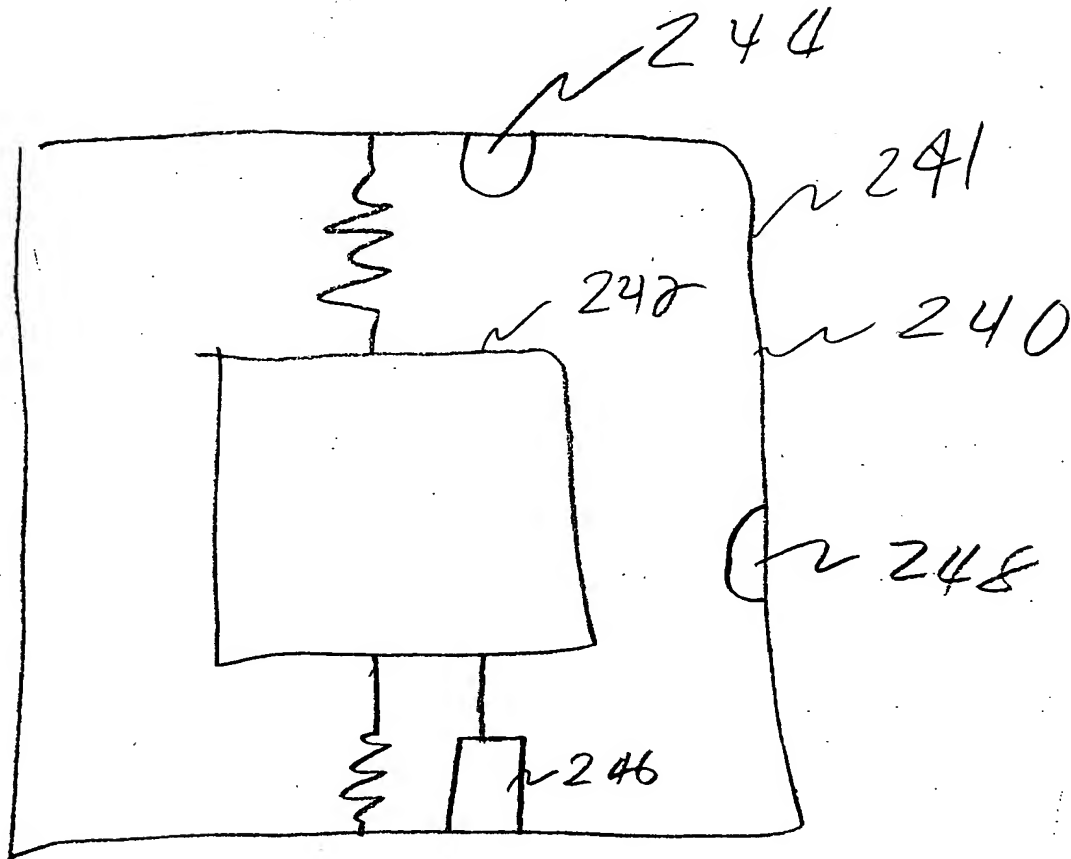


Fig. 3

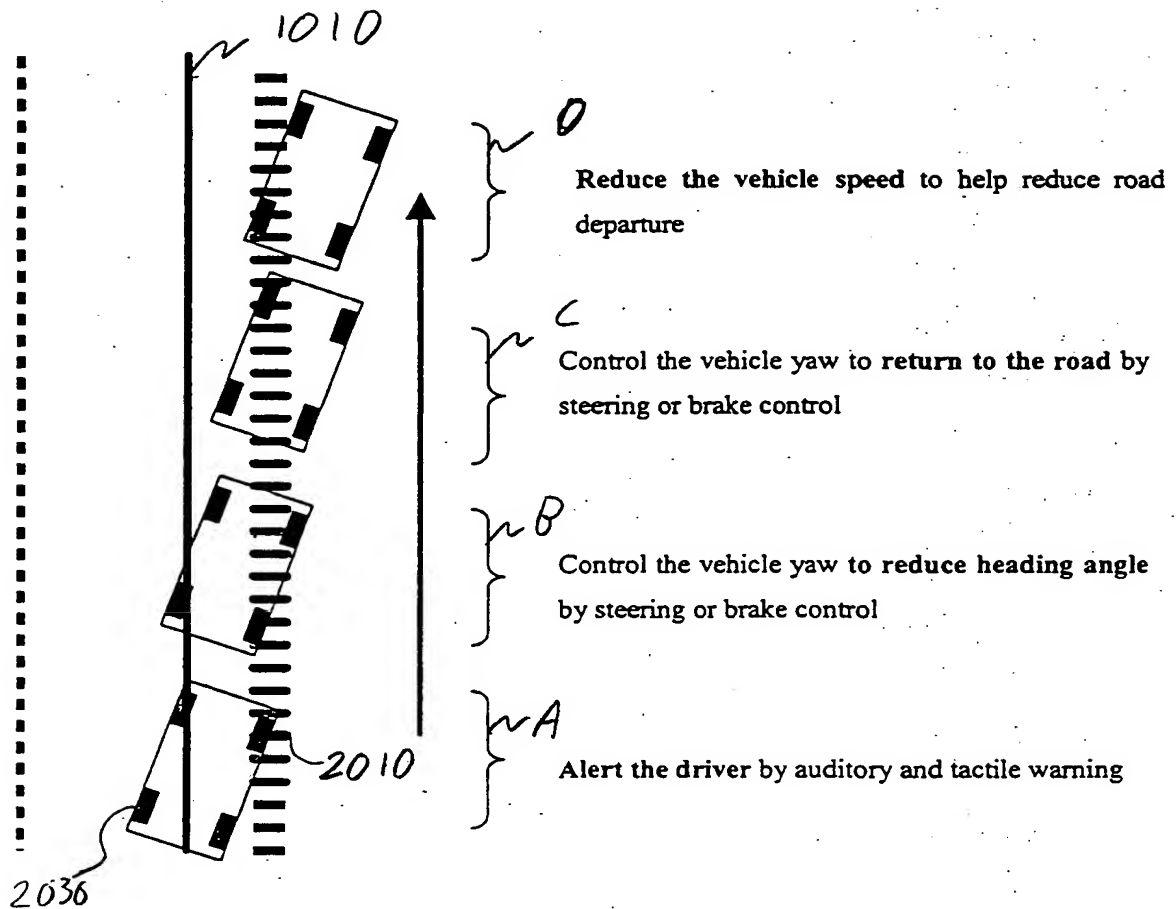
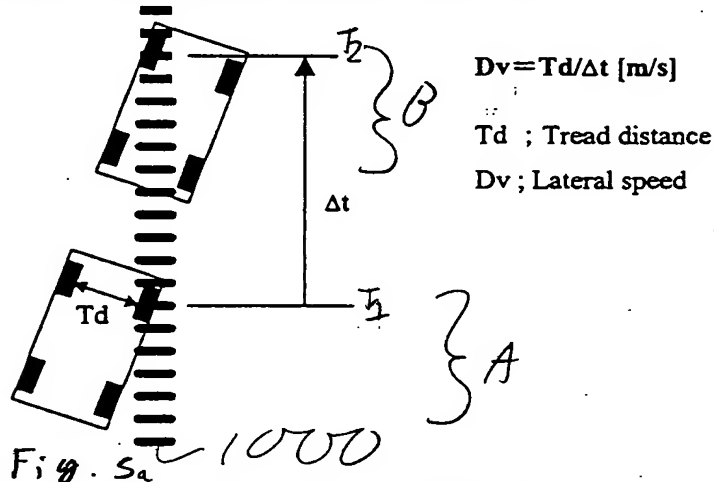


Fig. 4

Title: RUMBLE STRIPS RESPONSIVE
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Calculation of the Lateral speed at Deviation



Calculation of the heading angle at deviation

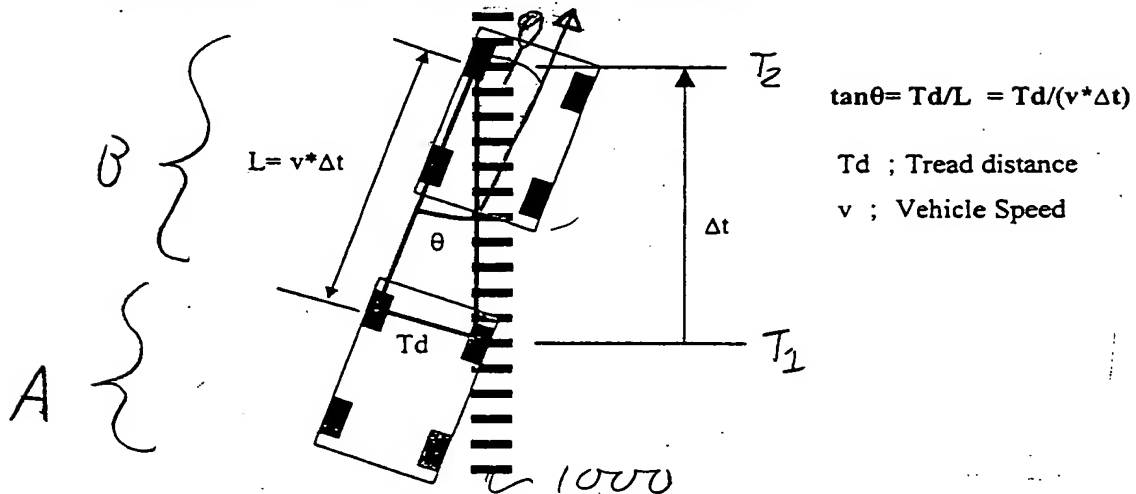


Fig. 5b

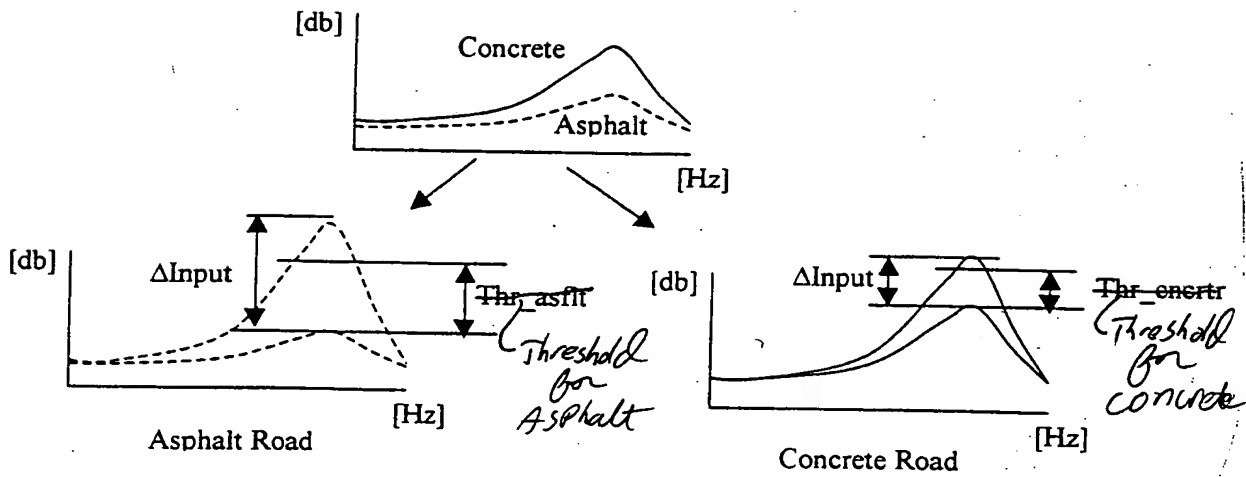


Fig. 6

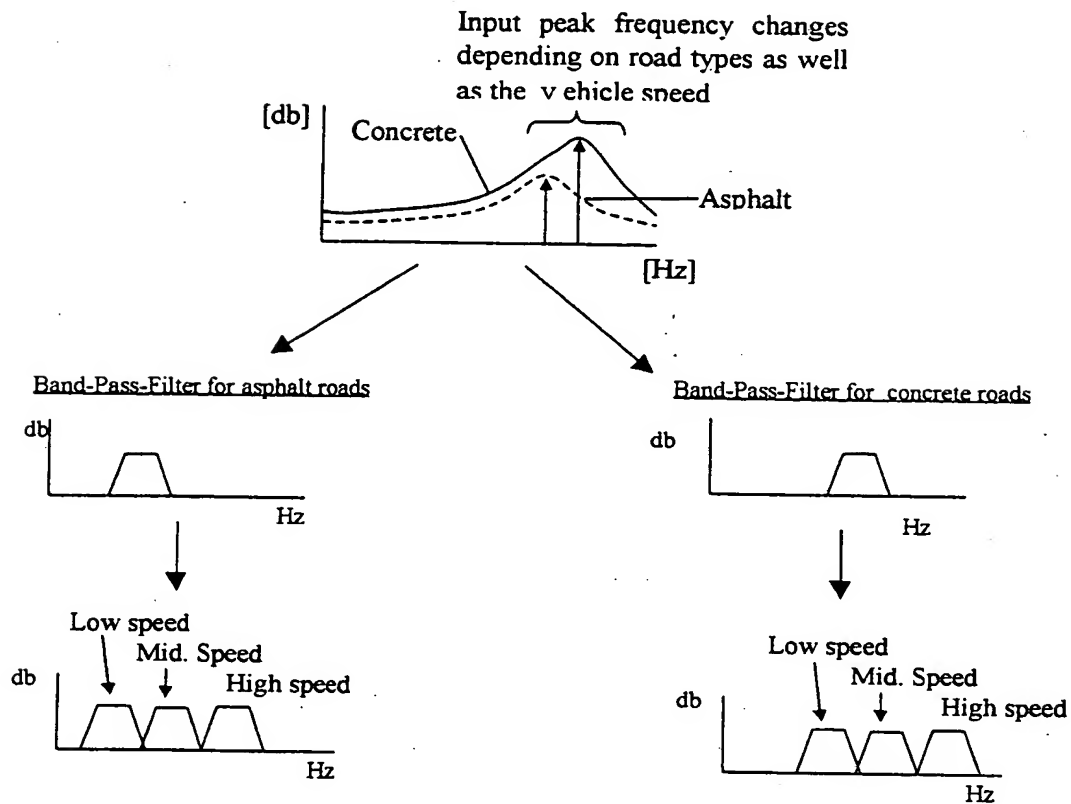


Fig. 7

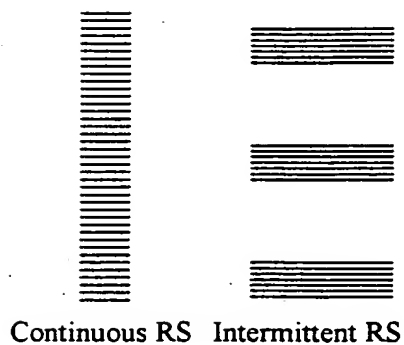


Fig. 8

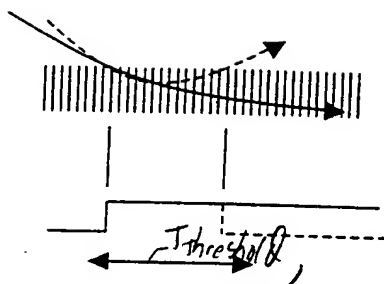
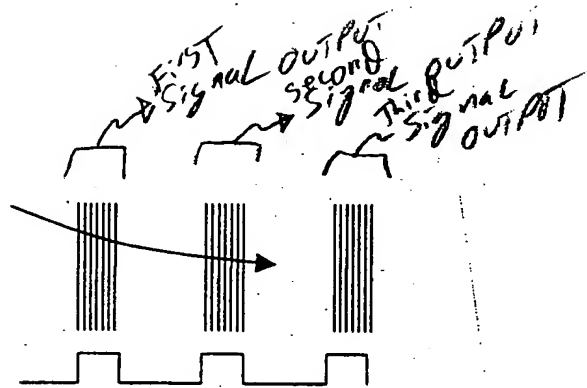


Fig. 9



$T_{threshold}$ Fig. 10

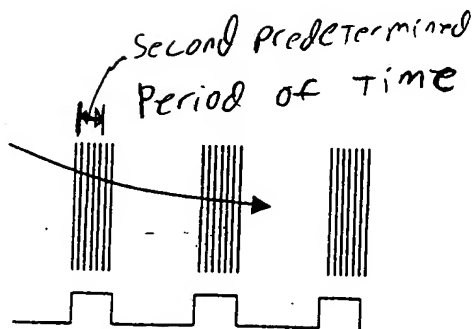


Fig. 11 $T_{predetermined}$

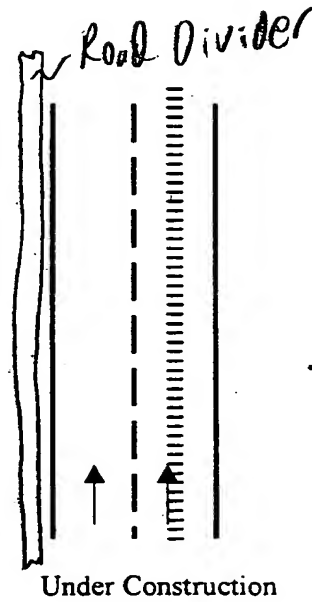


Fig. 12

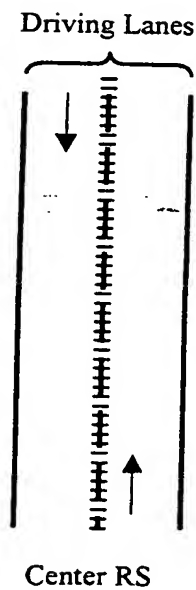


Fig. 13

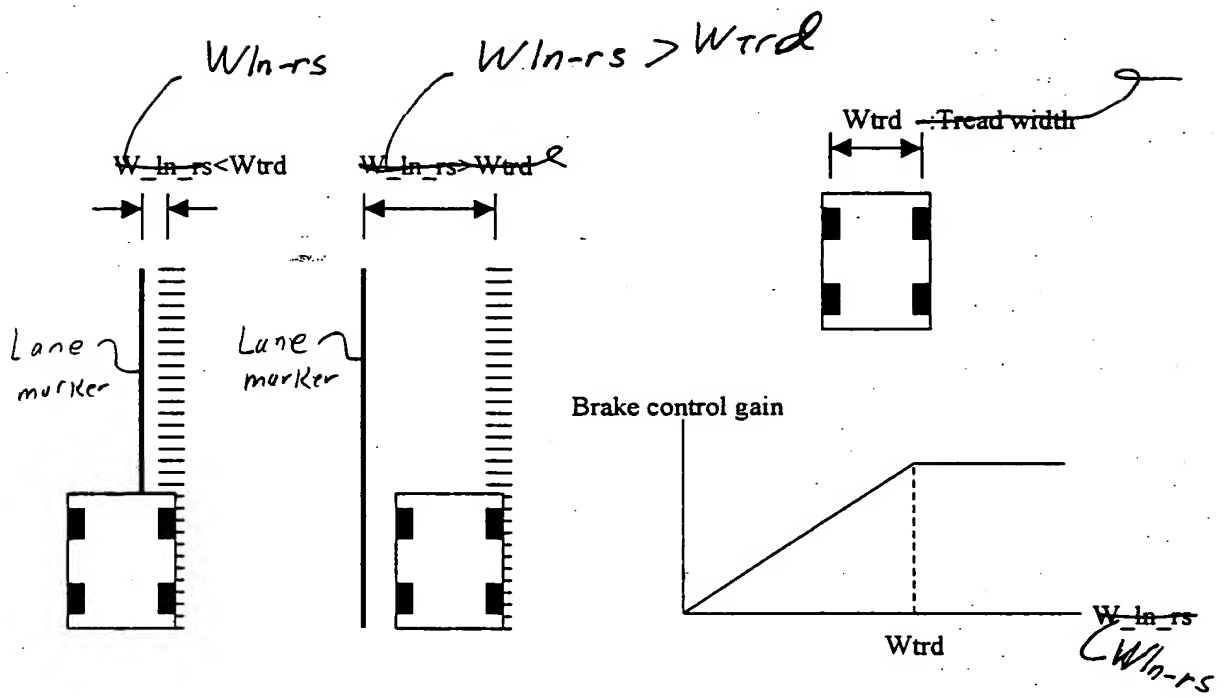


Fig. 14

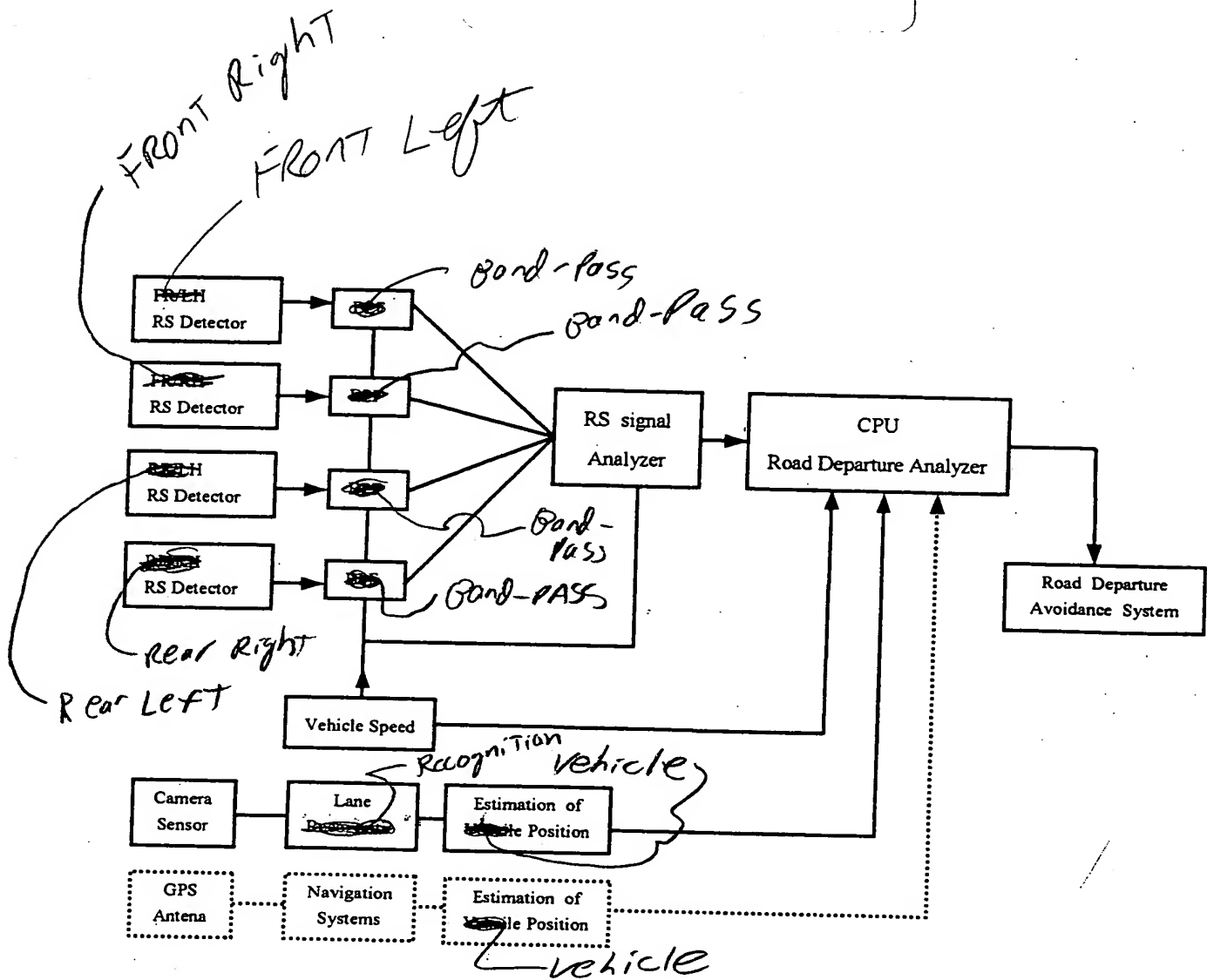


Fig. 15

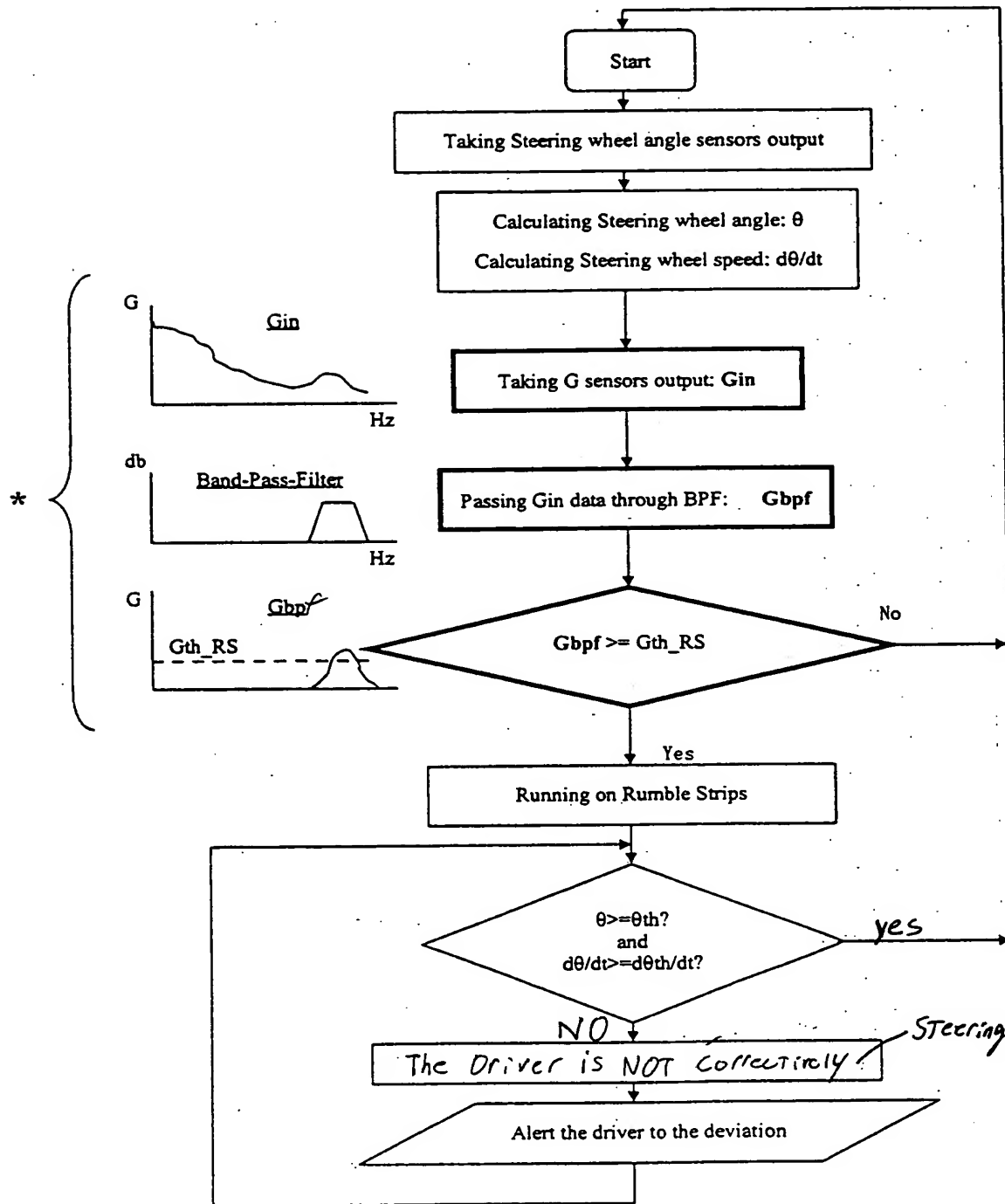


Fig. 16

Exemplary
Cut-off frequencies of Band-Pass Filter in ~~response~~ *response* to vehicle speed

The pattern of rumble strips: cycle distance ; 30.48cm (1foot)

140~ km/h 128 Hz BPF#1

120~140km/h 109 Hz BPF#2

100~120km/h 91 Hz BPF#3

80~100km/h 72 Hz BPF#4

60~80km/h 55 Hz BPF#5

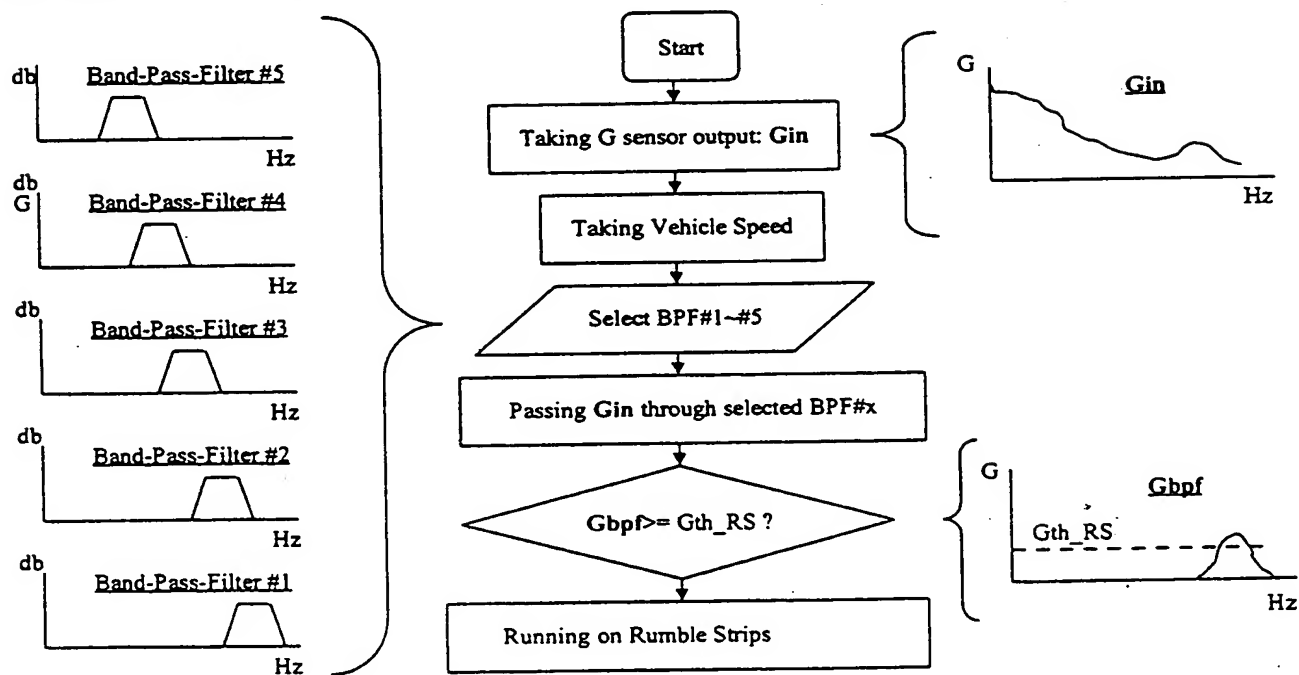


Fig. 17

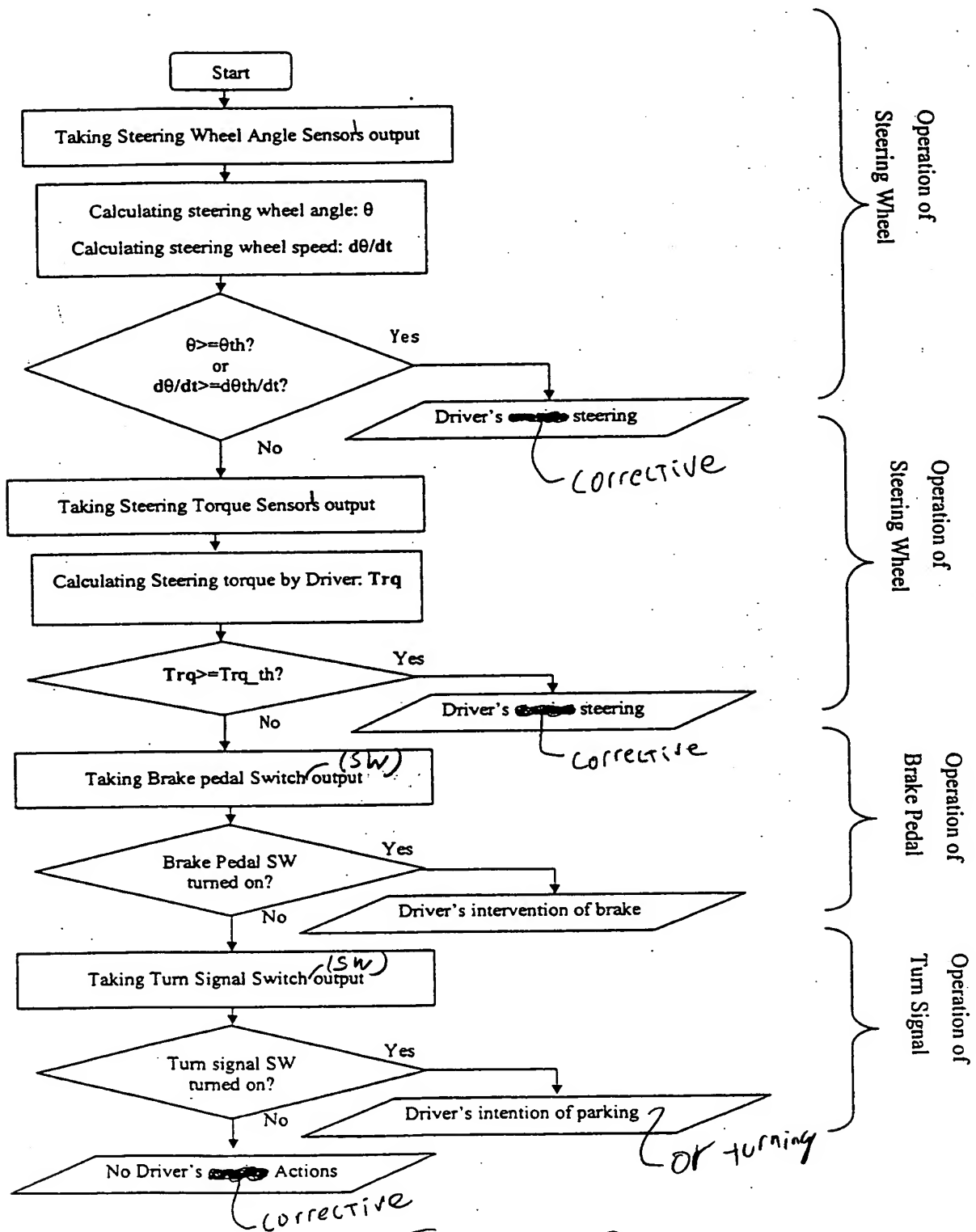
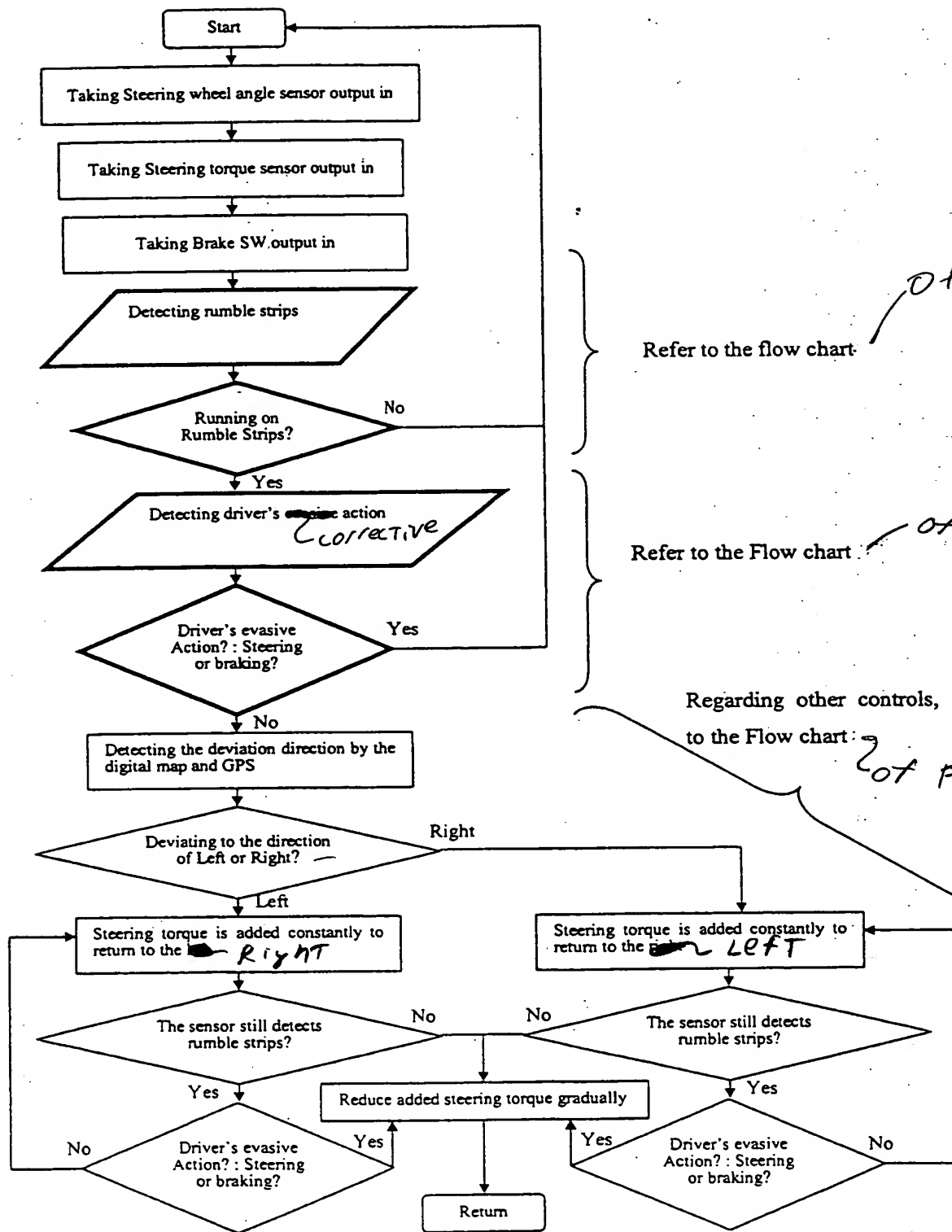


Fig. 18

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Refer to the flow chart

Refer to the Flow chart

Regarding other controls, Refer to the Flow chart

Fig. 19

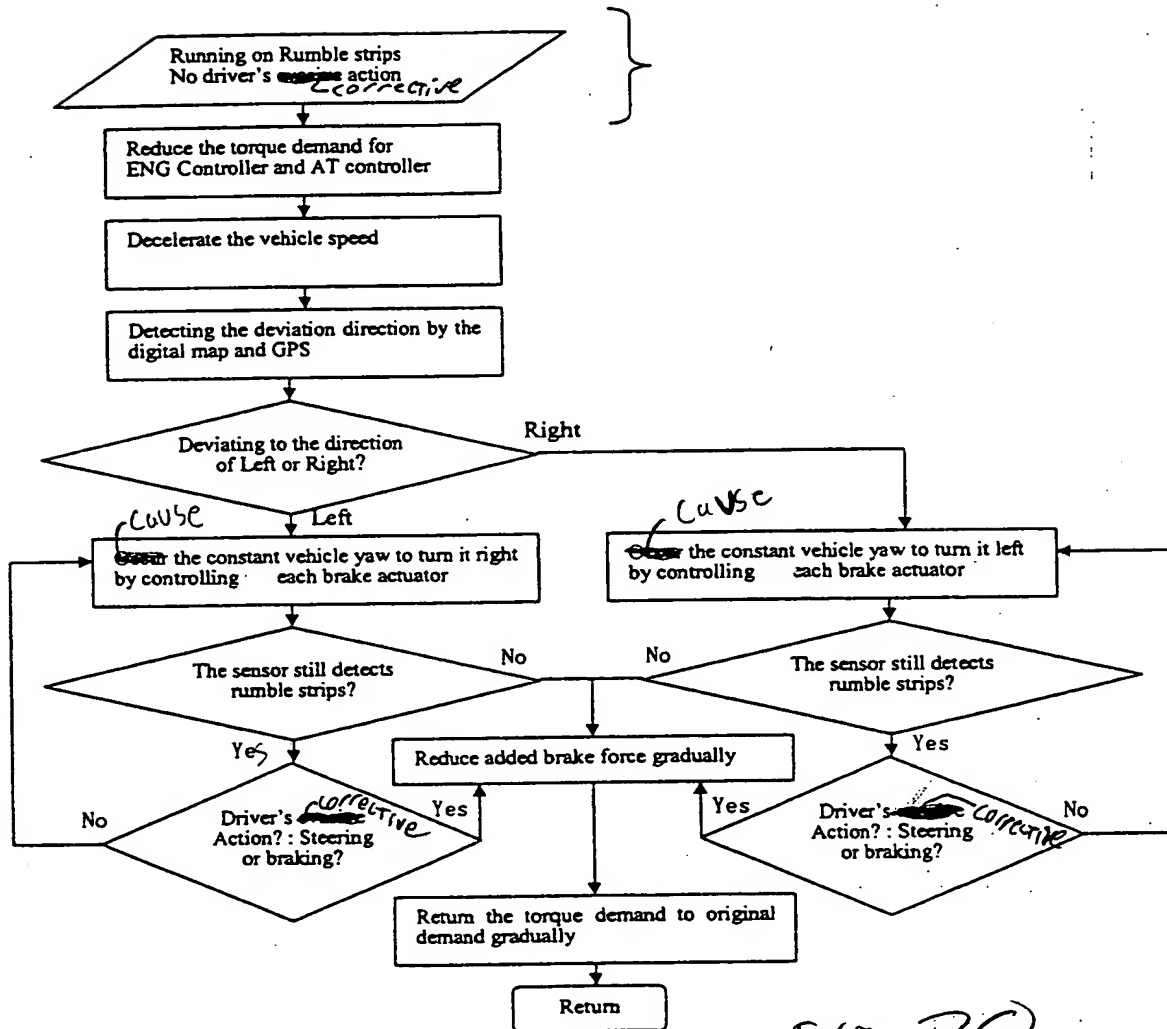


Fig. 20

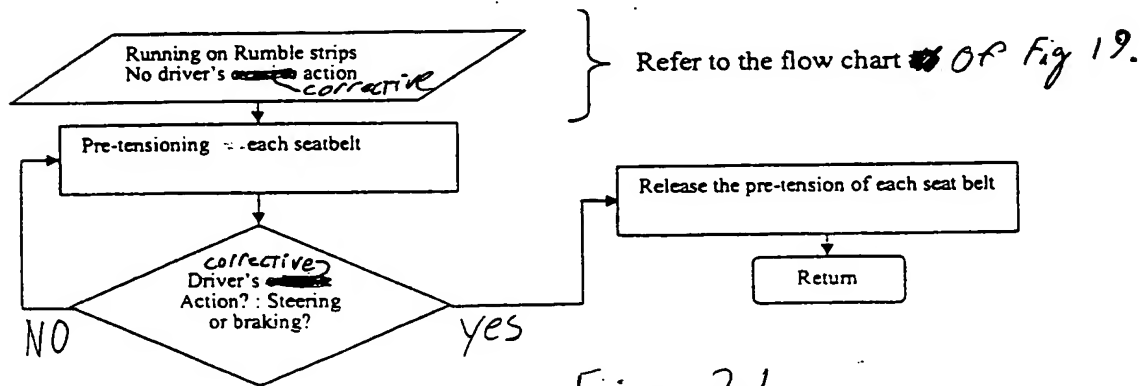


Fig. 21

Refer to the flow chart of Fig 19.

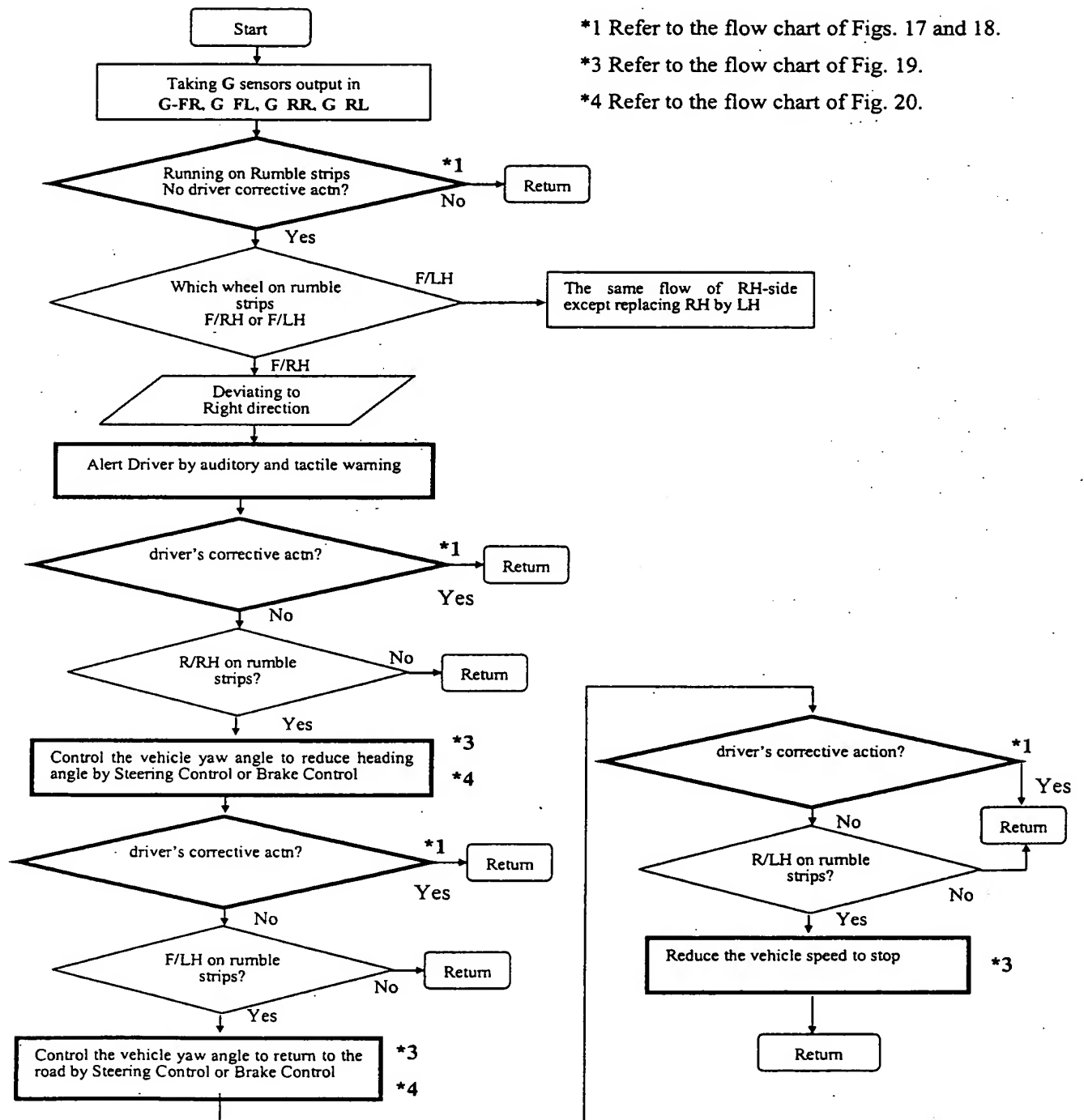


Fig. 22

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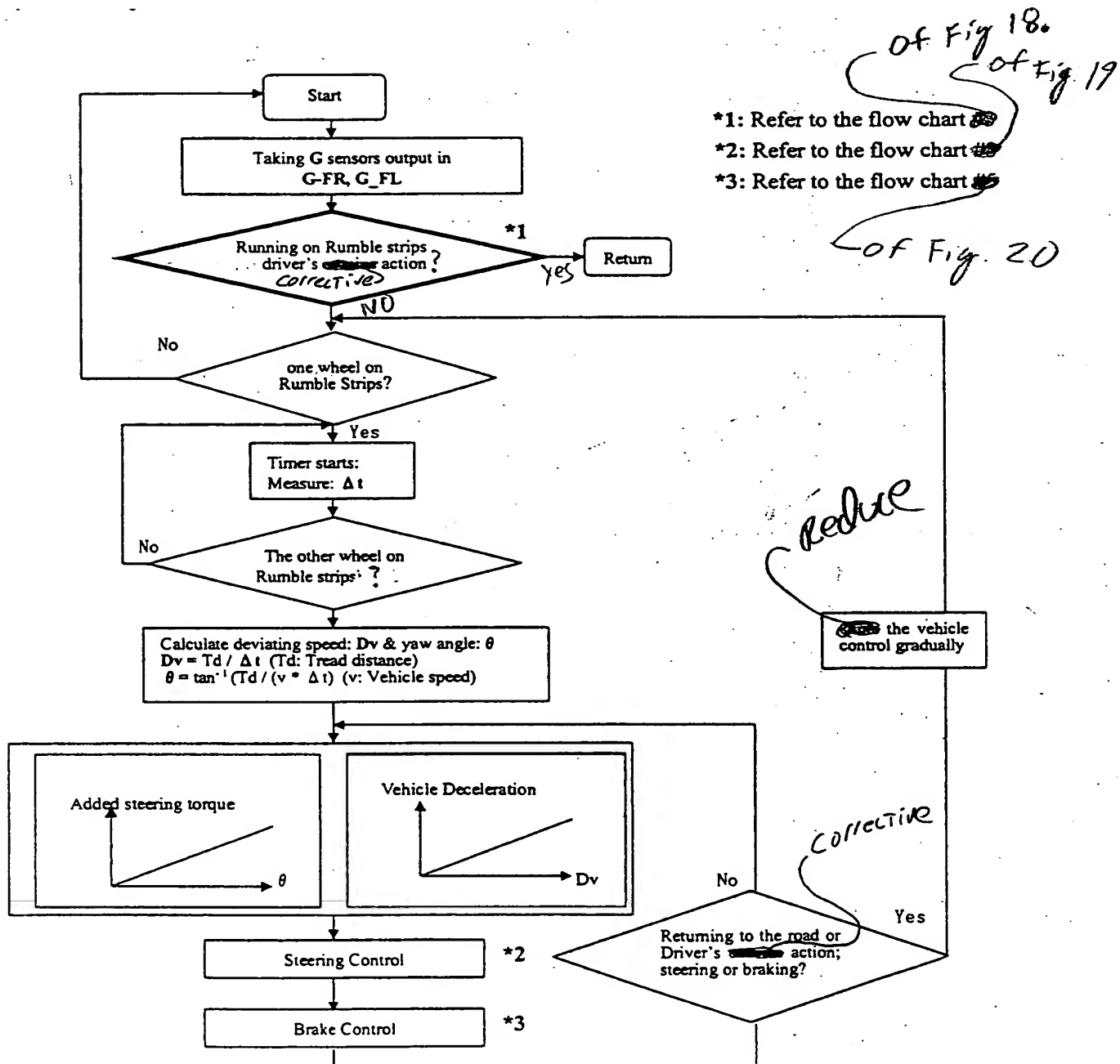


Fig. 23

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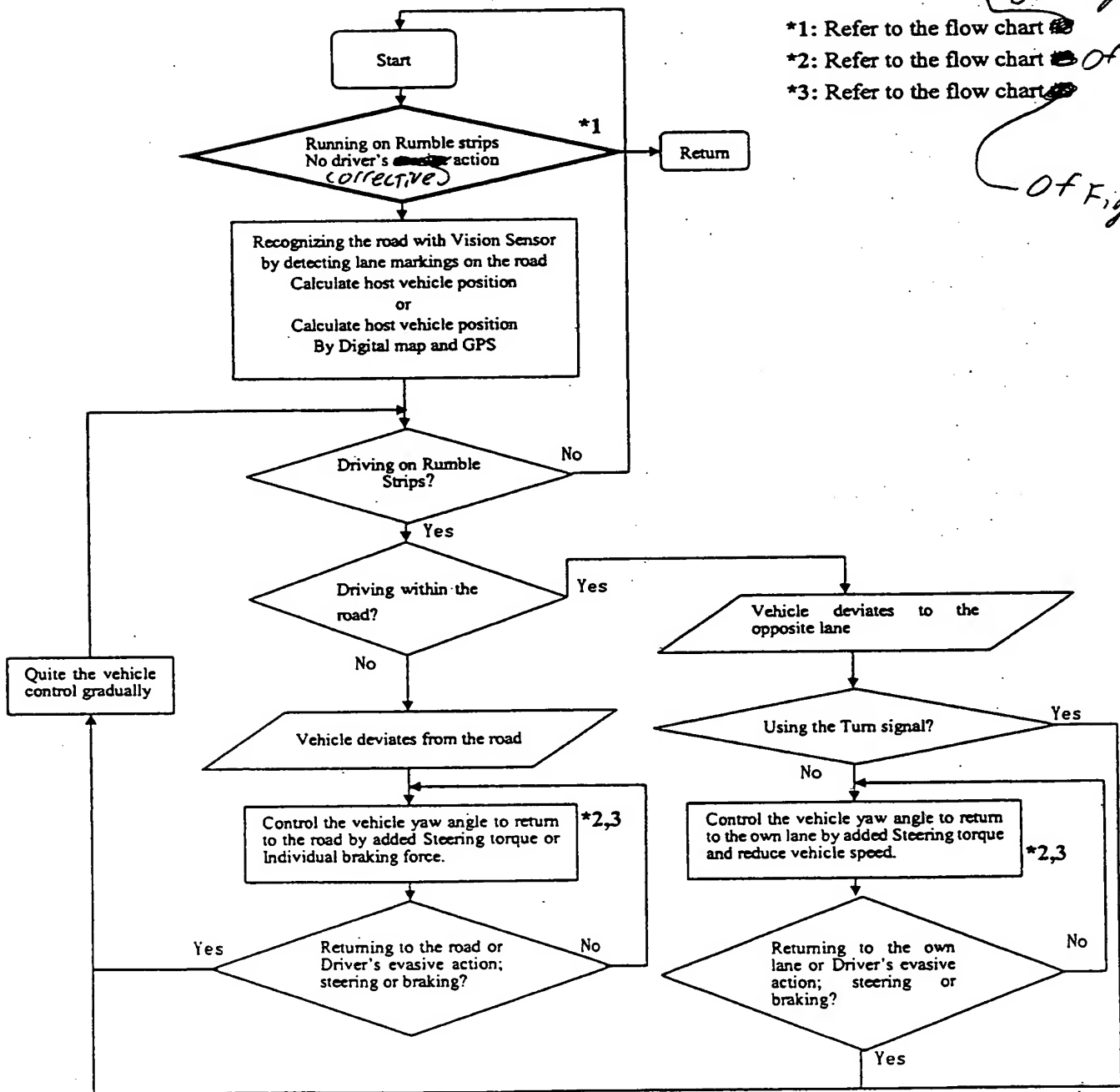
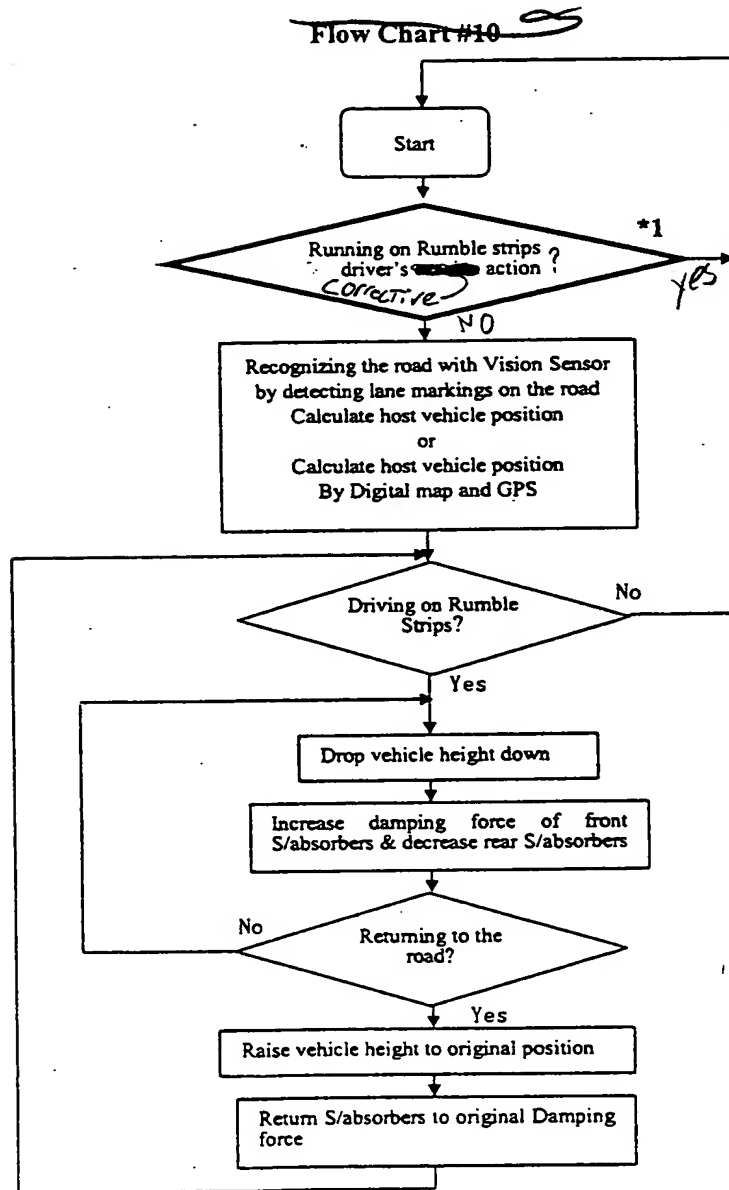


Fig. 24

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*1: Refer to the flow chart
of Fig. 18

Fig. 25